

The National Security Field Experience Initiative (NSFEI) is a science and technology work experience program started in June of 1996. Lawrence Livermore National Laboratory and ALU LIKE, Inc. both contribute separate resources toward the collaboration.

#### **NSFEI** strives to:

- Develop a workforce qualified to engage in various defense, technological, and environmental activities in the Pacific Region.
- Collaborate on projects that apply science and technology in the national interest and support the defense, economic, and environmental needs of the Pacific Region.
- Integrate cultural values as an important element of the learning and work experience.

The main purpose of this program is to promote science and technology in the Pacific Region, including providing opportunities to local residents so that they can return to Hawai'i and Alaska after their LLNL internship and incorporate the knowledge, skills, and abilities they have acquired to benefit the nation, their states, and local communities.



### Qualifications for Applicants: Required:

- · Age 18 and over and U.S. citizen.
- Security clearance: Able to pass a federal government security clearance background check [for example, review of military and law enforcement records for infractions].
- Successful completion of courses in science and technology or equivalent.

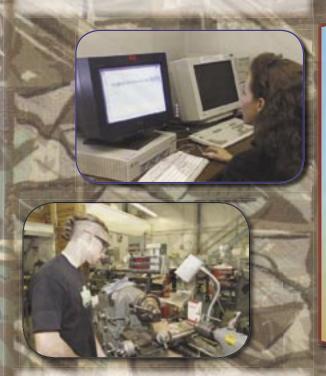
#### Desired:

- Full-time community college student or equivalent.
- Experience in projects that integrate Pacific culture and science and technology in communities that are underrepresented in federal government research and development programs.



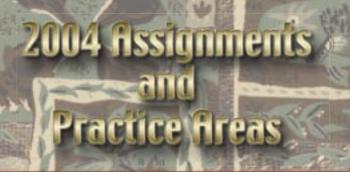
## Regional Security, Earth Science Division, Energy and Environment Directorate

- Update database of seismic stations in South Asia.
- Pick arrival times from seismic data to compute locations of earthquakes in the eastern Mediterranean.



# Homeland Operational Planning System (HOPS). Nonproliferation, Arms Control, and International Security (NAI) Directorate

- Research and help identify transportation networks critical to Hawai'i and the Pacific region.
- Create and characterize hazardous release scenarios to allow for a better understanding of and preparation for National Security Special Events (NSSEs).
- Assist in creating visual tools that allow data to be made available to facility personnel and event planners for use as a real-time tool and for more efficient emergency response against terrorist









### Electronics Engineering, Laser Engineering Division, National Ignition Facility (NIF) Directorate

- Assist with the installation and check out of critical laser diagnostic components for the National Ignition Facility (NIF).
- Begin Factory Acceptance Testing on the hundreds of laser energy sensors required for NIF.



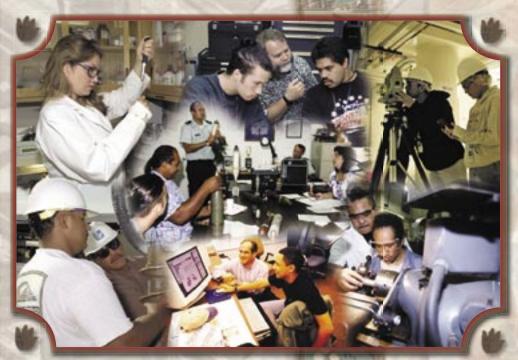


# Occupational Environmental, Safety & Health, Safety and Environmental Protection (SEP) Directorate

- Assist with integrating information on Material Safety Data Sheets (MSDS) and other chemical references to highlight pertinent chemical properties, hazards, and regulatory and facility threshold limits.
- Provide ES&H technician support, including performing field work and documenting procedures for training purposes.



Technology Fields: The NSFEI field experiences relate to a range of fields including: computer science, physics, astronomy, chemistry, electronics, data base management, geographical information systems, and technical communications. NSFEI offers skill building in GPS and mapping, Auto-CAD design, computer applications, structured cabling basics (CAT 5), and machine shop design/fabrication, as well as report writing and oral presentations.



### Post-NSFEI Employment in Hawai`i

### **Environmental Remediation/Waste Mgmt**

Unitek, Inc. – Hazardous Waste Storage and Treatment

Parsons Engineering, Inc. – Kaho`olawe Island UXO Cleanup

UXB Int'l - Kaho olawe Island UXO Cleanup

IT Corp – Barber's Point
Underground Tank Cleanup
Donaldson Enterprises
– Pohakuloa and Waikoloa
Vulch Environmental –
Environmental Remediation
Ho`olana Technologies

- TLC Field Kit

# Construction and Infrastructure Support

American Standard
Concrete Pumping
AT&T – power generation/
military telecom network
Army Reserves – Engineering
Division

City & County of Honolulu

– Solid Waste Management

# Telecommunications and Network Support

Summit Communications, Inc.

Sandwich Isles
Communications
Pixinet ISP/Coda Studio/
ALU LIKE, Inc. web design

Henkels & McCoy, Inc.
Pearl Harbor Naval Shipyard

Maui High Performance Computing Center (MPHCC) Tripler Army Medical Center, Telemedicine Project Akimeka, LLC.

Akamai Info. Tech.

#### Optics/Astronomy

U.S. Air Force/Nellis Air Force Base, Predator Project

Textron Systems Kauai Keck Observatory

University of Hawai'i Hilo – Institute of Astronomy

### Education/Teaching

Waimea Intermediate School Ka`u High School Hawai`i Technology Institute



### Sponsors:

U.S. Department of Energy – National Nuclear Security Administration (NNSA) U.S. Department of Defense

National Science Foundation

National Science Foundation – Center for Adaptive Optics

U.S. Department of Labor

U.S. Department of Education

#### Contacts:

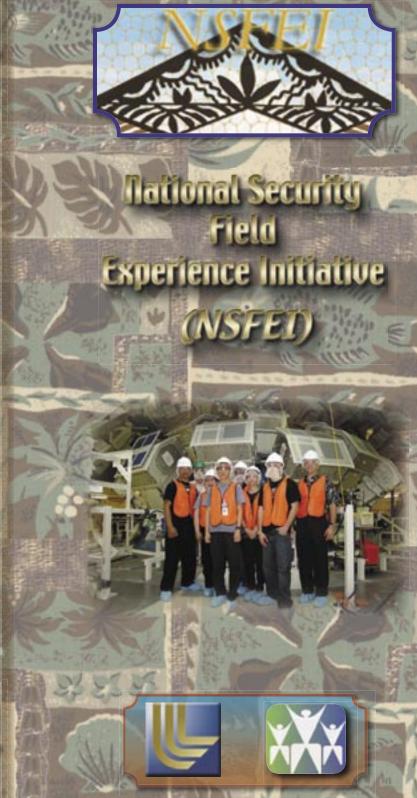
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### www.llnl.gov/NSFEI

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### Post-NSFEI College Enrollment in Hawai'i

### University of Hawai`i, Hilo

Computer Science
Criminal Justice
Psychology

Business

University of Hawai`i, Manoa

Engineering
Business/Accounting

Maui Community College

Electronics and Computer Techn

Electronics and Computer Technology

Honolulu Community College

Computing, Electronics & Networking Technology Hawai`i Community College

Electronics

University of Phoenix